


NAME	Prof. (Dr.) Ravi Kant Singh	
DESIGNATION	Professor	
EMAIL ID	rksingh1@amity.edu	
CONTACT NUMBER	9718515328, 9810249758	
RESEARCH INTERESTS	Environmental Biotechnology & Bioprocess Engineering	

EDUCATIONAL QUALIFICATIONS:

Name of College / University	Degree	Year
Uttar Pradesh Technical University, Lucknow (Workplace: Indian Institute of Technology, Roorkee)	Ph.D. in Biotechnology	2008
Institute of Engineering & Technology, Lucknow (Affiliated with University of Lucknow, Lucknow)	M.Tech. in Biotechnology	2002
University of Lucknow, Lucknow	M.Sc. in Chemistry (Splz. Organic Chemistry)	1999
University of Lucknow, Lucknow	B.Sc. (PCM)	1997

Title of Ph.D. thesis: Studies on Adsorption and Biodegradation for the Removal of p- Cresol from Industrial Wastewater

EXPERIENCE (in chronological order): Total 23 Years of Research & Teaching

Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Professor	Teaching/ Research	Amity Institute of Biotechnology, Amity University, Noida	04.08.2022 to till date
Professor & Dean/ Director	Teaching/ Research	Amity Institute of Biotechnology, Amity University, Raipur	13.08.2018 to 03.08.2022
Professor & Dean Academics	Teaching/ Research	NIET, Greater Noida	01.12.2017 to 09.08.2018
Professor & Dean Academics	Teaching/ Research	RITEE, Raipur	14.01.2017 to 27.11.2017
Professor & Head (BT & CH)	Teaching/ Research	NIET, Greater Noida	16.03.2015 to 13.01.2017
Associate Professor & Coordinator (IQAC)	Teaching/ Research	IMSEC, Ghaziabad	01.08.2011 to 14.03.2015
Assistant Professor-III	Teaching/ Research	IMSEC, Ghaziabad	19.08.2008 to 31.07.2011
Assistant Professor-III	Teaching/ Research	MIET, Meerut	01.09.2007 to 18.08.2008
Assistant Professor	Teaching/ Research	MIET, Meerut	26.08.2002 to 31.08.2007

No. of Ph.D. students supervised	04 (Awarded)
	04 (on going)
No. of Post-Doc	NIL
No. of M.Tech. Students supervised:	26
No. of B.Tech. Students supervised:	72

**PUBLICATIONS
(54)**

PUBLICATIONS IN LAST FIVE YEARS

1. Latika Jaiswal, Sachinandan De, **Ravi Kant Singh**, Rubina Kumari Baithalu, Molecular characterization and protein structure prediction of heat shock transcriptional factors in goat (*Capra hircus*) and sheep (*Ovis aries*), *Animal Biotechnology*, 30 (3), 2019, 1-9.
2. Latika Jaiswal, Sachinandan De, **Ravi Kant Singh**, Seasonal variation in expression pattern of *heat shock factor* genes in *Ovis aries* and *Capra hircus*, *Indian Journal of Animal Sciences*, 89 (9), 2019, 951-954.
3. Meenu Chopra, **Ravi Kant Singh**, Sachinandan De, Genome Based Phylogeny and Virulence Factor Analysis of Mastitis Causing *Escherichia coli* Isolated from Indian Cattle, *The Indian Journal of Animal Sciences*, 90 (12), 2020, 1577-1583.
4. Meenu Chopra, **Ravi Kant Singh**, Sachinandan De, Complete genome sequence and comparative analysis of multi-antibiotic resistance plasmids in carbapenem-resistant *Escherichia coli* from bovine mastitis, *Indian Journal of Biotechnology*, 20 (2), 2021, 13-23
5. Sakshi Chaudhary, **Ravi Kant Singh**, Pradeep Kumar, Genome-wide Identification, characterization, and primer designing of simple sequence repeats across *Leguminosae* family, *3 Biotech*, 13 (8), 2023, 286.
6. Aparna Kaushik, Ravi Kant Singh, Pankaj Kumar Tyagi, Green Synthesized Nanoparticle Based Drug Delivery: Recent Trends and Future Prospects, *Precision Nanomedicine*, 6(3), 1109-31
7. Aditya Kate, Ekkita Seth, Ananya Singh, Chandrashekhar Mahadeo Chakole, Meenakshi Kanwar Chauhan, **Ravi Kant Singh**, Shrirang Maddalwar, Mohit Mishra, Artificial Intelligence for Computer-Aided Drug Discovery, *Drug Research*, 73 (5), 303.
8. **Ravi Kant Singh**, Santosh Kumar Mishra, V. Balasubramanian, Priya Ranjan Kumar, Development of biologically based activated carbon for advanced water and wastewater treatment process, *Bioremediation of Pollutants*, June 2020, 215-225.
9. Pradeep Kumar, Madhu Kamle, Pawan K. Maurya, **Ravi Kant Singh**, Beneficial uses and applications of plant growth promoting Rhizobacteria in sustainable agriculture, *Microbiology for Sustainable Agriculture, Soil Health & Environmental Protection*, Apple Academic Press, USA, February 2019, 81-104.

10. Balasubramanian V, Arunima Sur, Kush Kumar Nayak, **Ravi Kant Singh**, Plant Root Exudates as Determinant of Rhizomicrobiome, Rhizosphere Microbes, Soil and Plant Functions, Vol. 23, Springer Nature, January 2021, 105-126.
11. Keshawanand Tripathi, Narendra Kumar, Meenakshi Singh, **Ravi Kant Singh**, Fungal Siderophore: Biosynthesis, Transport, Regulation, and Potential Applications, Rhizosphere Microbes, Soil and Plant Functions, Vol. 23, Springer Nature, January 2021, 387-408.
12. Madhu Kamle, Rituraj Borah, Himanshree Borah, Amit K. Jaiswal, **Ravi Kant Singh**, Pradeep Kumar, Systemic acquired resistance (SAR) & induced systemic resistance (ISR): Role & mechanism of action against phytopathogens, Fungal Biotechnology and Bioengineering, Springer, June 2020, 457-470.
13. Santosh Kumar Mishra, **Ravi Kant Singh**, Priya Ranjan Kumar, Transgenic plants in phytoremediation of organic pollutants, Bioremediation of Pollutants, June 2020, 39-56.
14. Mohit Mishra, **Ravi Kant Singh**, Sushma Chauhan, Priyanka Gupta, Secretome of Microbiota in Extreme Conditions, Microbial Versatility in Varied Environments, April 2020, 85-99.
15. Santosh Kumar Mishra, Priya Ranjan Kumar, **Ravi Kant Singh**, Ajay Kumar Singh, Agro-Industrial Residues as Solid Substrate for α -Amylase Production Using Solid State Fermentation by Filamentous Fungi: A Review, Biosc. Biotech. Res. Comm., 13 (2), June 2020, 550-555.
16. Kundan Kumar, **Ravi Kant Singh**, Pankaj Kumar Tyagi, Dilip Gore, Assessment of Toxicity and Safety Profiles of Nanoparticles, Letters in Appl. Nano Biosci, 10 (1), 2021, 1877-1888.
17. Kundan Kumar, **Ravi Kant Singh**, Pankaj Kumar Tyagi, Varaprasad Kolla, Dilip Gore, *Tinosporacordifolia* reduced copper oxide nanoparticles synthesis, characterization, and its antibacterial investigation, European Chemical Bulletin, 12 (5), 2023, 1242-1254.
18. Abhinav Shrivastava, **Ravi Kant Singh**, Pankaj Kumar Tyagi, Dilip Gore, Synthesis of Zinc Oxide, Titanium Dioxide and Magnesium Dioxide Nanoparticles and Their Prospective in Pharmaceutical & Biotechnological, 2 (1), 2021, 11-20.

<p>PATENTS (05)</p>	<ol style="list-style-type: none"> 1. Plant Protection Coating Paint Composition Using Fly Ash and Preparation Method Thereof (Application No-202311032457) 2. Solar pyrolysis device design for preparation of biochar from biomass (Application No.-TEMP/E-1/45376/2023-DEL) 3. Bioreactor based power generation using plant biomass method and design Thereof (Application No.- TEMP/E-1/49002/2023-DEL) 4. Concentrating Solar Radiation Based Device for Milk Tea Preparation (Application No.- Temp/E1/69104/2023- Del) 5. Integrated High Efficiency Biological Particulate Removal System for Controlled Environment Enclosures (Application No.- Temp/E1/79104/2023- Del)
<p>RESEARCH PROJECTS Completed: (04) Ongoing: (NIL.)</p>	<ol style="list-style-type: none"> 1. Completed a research project on Development of Technology Packages and Simulation model for prediction of plant performance based on evaluation of plants already established in field sponsored by MNES, Govt. of India. 2. Completed a research project on development of nano-based biosensor for wastewater monitoring & treatment funded by MSME, Govt. of India 3. Completed an infrastructure development project MODROB funded by AICTE. 4. Completed the Establishment of Herbal Garden to conserve Germplasm of Endemic and Endangered Traditional Medicinal Plants of Chhattisgarh state. 5.
<p>AWARDS & HONOURS/ DISTINCTIONS</p>	<ol style="list-style-type: none"> 1. Lifetime achievement Award 2. Best Academician Award 3. Best Administrative Award 4. JRF & SRF
<p>MEMBERSHIP with Professional/ Academic bodies</p>	<ol style="list-style-type: none"> 1. Life Member, The Biotech. Research Society, India 2. Life Member, Association of Biotechnology and Pharmacy, India 3. Life Member, Association of Microbiologist of India, India 4. Life Member, The Indian Society of Human Genetics, India 5. Life Member, Bioinformatics and Drug Discovery Society